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Missouri Department of Health

1996 Annual Disease Report

**Bureau of Communicable Disease Control
Bureau of Veterinary Public Health
Bureau of Immunization
Bureau of Tuberculosis Control**

Selected Diseases By District, Missouri 1996

District	Amebiasis	Animal Rabies (A+)	Aseptic Meningitis	Campylobacteriosis	E. coli O157:H7	Encephalitis Primary	Giardiasis	HIB Meningitis	HIB Other	Hepatitis A	Hepatitis B	Hepatitis non-A, non-B	Influenza	Legionellosis	Listeria monocytogenes	Lyme disease	Measles	Meningococcal Meningitis	Mumps	Pertussis	Rocky Mtn Spotted Fever	Salmonellosis	Shigellosis	Yersinia enterocolitica	Total By District		
Central District	2	0	7	70	7	1	121	0	0	103	8	3	44	3	0	6	2	11	1	10	2	21	1	194	111	8	545
Eastern District	20	6	32	216	29	0	318	0	2	262	170	2	156	10	3	5	0	27	2	21	1	194	111	8	1595		
Northeastern District	1	0	6	21	2	0	42	0	1	35	3	1	20	0	0	2	0	0	0	1	0	17	22	0	174		
Northwestern District	6	2	46	87	11	0	108	0	3	305	76	8	23	1	3	9	1	14	1	28	5	130	98	4	969		
Southeastern District	1	12	16	55	10	0	53	0	0	80	15	3	20	0	2	15	0	2	4	5	5	59	65	1	423		
Southwestern District	1	6	13	105	15	2	135	0	2	629	54	6	20	4	0	15	0	3	2	9	6	92	22	1	1142		
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
State Total	31	26	120	554	74	3	777	0	8	1414	326	23	283	18	8	52	3	57	10	74	19	565	387	16	4848		

Selected Diseases By Month, Missouri 1996

DISEASE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	UNKNOWN	TOTAL
Amebiasis	6	1	4	0	0	2	0	4	5	6	3	0	0	31
Animal Rabies (A+)	1	2	5	2	2	2	4	3	2	1	0	2	0	26
Aseptic Meningitis	15	6	8	5	9	10	15	11	18	14	8	1	0	120
Campylobacteriosis	39	19	21	23	73	110	79	60	48	40	30	12	0	554
E. coli O157:H7	1	1	2	6	7	14	12	10	8	7	4	2	0	74
Encephalitis Primary	1	0	0	0	0	2	0	0	0	0	0	0	0	3
Giardiasis	71	61	67	42	45	55	80	87	93	78	43	55	0	777
HIB Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIB Other	2	1	0	0	0	2	1	1	0	1	0	0	0	8
Hepatitis A	120	87	64	90	105	91	132	132	141	224	145	83	0	1414
Hepatitis B	40	16	26	24	25	32	12	27	30	39	35	20	0	326
Hepatitis non-A, non-B	2	3	1	2	4	1	3	3	2	1	1	0	0	23
Influenza	99	15	29	15	1	1	1	0	1	0	3	118	0	283
Legionellosis	2	0	1	1	1	0	0	0	7	5	1	0	0	18
Listeria monocytogenes	0	0	0	0	0	2	1	3	0	2	0	0	0	8
Lyme disease	10	2	1	2	18	9	3	3	3	0	1	0	0	52
Measles	0	0	2	0	0	0	0	1	0	0	0	0	0	3
Meningococcal Meningitis	11	10	4	2	5	3	1	8	2	0	4	7	0	57
Mumps	0	0	1	0	0	1	2	1	2	2	1	0	0	10
Pertussis	3	0	1	6	3	5	6	11	5	11	12	11	0	74
Rocky Mtn Spotted Fever	0	0	0	1	6	3	4	2	2	0	1	0	0	19
Salmonellosis	65	32	22	30	48	62	72	65	67	51	32	19	0	565
Shigellosis	68	60	29	23	30	22	34	34	22	19	35	11	0	387
Yersinia enterocolitica	3	2	0	2	0	2	1	1	0	0	1	4	0	16

Selected Diseases By Age Group, Missouri 1996

Diseases Counts By Age	Under 1	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65+	Unknown	Total
Amebiasis	0	0	0	0	1	1	2	3	2	9	9	1	1	1	1	31
Animal Rabies (A+)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Aseptic Meningitis	22	0	0	1	0	10	6	9	11	24	21	10	3	3	0	120
Campylobacteriosis	23	17	14	15	6	32	27	31	44	100	94	55	31	60	5	554
E. coli O157:H7	1	4	6	6	2	7	6	2	10	6	6	5	3	9	1	74
Encephalitis Primary	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	3
Giardiasis	19	61	62	38	25	103	44	17	24	154	128	41	25	26	10	777
HIB Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIB Other	0	0	0	0	1	1	0	0	0	1	0	0	1	4	0	8
Hepatitis A	5	16	17	19	17	146	84	115	166	395	274	79	32	41	8	1414
Hepatitis B	0	0	0	0	0	1	2	25	34	100	83	39	17	18	7	326
Hepatitis non-A, non-B	0	0	0	0	0	0	0	0	3	7	10	2	0	1	0	23
Influenza	37	32	18	14	7	19	13	29	19	19	19	14	9	21	13	283
Legionellosis	0	0	0	0	0	0	0	1	0	0	1	3	8	4	1	18
Listeria monocytogenes	0	0	0	0	0	0	0	1	0	1	1	0	3	2	0	8
Lyme disease	0	0	1	0	1	1	3	6	1	3	13	6	11	6	0	52
Measles	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3
Meningococcal Meningitis	11	6	2	1	0	2	7	9	3	2	7	1	3	2	1	57
Mumps	0	2	1	0	0	1	1	2	0	2	1	0	0	0	0	10
Pertussis	51	1	5	1	4	2	5	3	0	1	0	1	0	0	0	74
Rocky Mtn Spotted Fever	0	0	0	1	0	3	2	0	0	1	2	3	2	5	0	19
Salmonellosis	58	24	26	17	18	49	25	27	30	84	62	49	37	53	6	565
Shigellosis	6	13	24	38	27	88	30	20	17	60	24	20	4	10	6	387
Yersinia enterocolitica	9	1	1	0	0	2	0	0	0	0	0	0	2	0	0	16

Selected Diseases By County, Missouri 1996

Selected Diseases By County, Missouri 1996

County	Amebiasis	Animal Rabies (A+)	Aseptic Meningitis	E. coli O157:H7	Encephalitis Primary	Giardiasis	HIB Meningitis	HIB Other	Hepatitis A	Hepatitis B	Hepatitis non-A, non-B	Influenza	Legionellosis	Listeria monocytogenes	Lyme disease	Measles	Meningococcal Meningitis	Mumps	Pertussis	Rocky Mtn Spotted Fever	Salmonellosis	Shigellosis	Yersinia enterocolitica	Totals By County	
COOPER			1	2					24												4	3		36	
CRAWFORD			1	1						3											2	2		10	
DADE										2	2									1	2			7	
DALLAS			4			2			16	1		1								1				25	
DAVIESS					1	1			3															5	
DE KALB						1			1		1											10		13	
DENT				2	1	1			1															5	
DOUGLAS	1	2	1	1		3			1											1	4			14	
DUNKLIN			2						2	1	1	1							1	1	6	1	1	18	
FRANKLIN	3	16			24				51		1	1	1		2	1	1	1	1	11	4			116	
GASCONADE	6	1			10										2					1	1			21	
GENTRY																					2				2
GREENE	2	9	38	4	1	47		2	155	21		17			1					2	33	9		341	
GRUNDY		2				1									1										4
HARRISON						2			1																4
HENRY		2							7		1														11
HICKORY		1							2																4
HOLT						2			1																4
HOWARD									17			1					3								21
HOWELL	11	3				4			7						1					1	3	15		45	
IRON						3			6	1	4				2	1								15	
JACKSON		10	21	2		26		2	70	8	2	5	2	2	2	4	1	16	3	28	4			206	
JASPER		2	10			9			109	8	1	3							1	15	6	1		165	
JEFFERSON	1	6	14	7		36		1	20	4	1	14			1	1	3		5	1	11	23		149	
JOHNSON		1	1						6	1					3				2		5			19	
KANSAS CITY	6	13	39	2		30			121	51	2	13	1			9		6	61	12	2			368	

Selected Diseases By County, Missouri 1996

County	Amebiasis	Animal Rabies (A+)	Aseptic Meningitis	Campylobacteriosis	E. coli O157:H7	Encephalitis Primary	Giardiasis	HIB Meningitis	HIB Other	Hepatitis A	Hepatitis B	Hepatitis non-A, non-B	Influenza	Legionellosis	Listeria monocytogenes	Lyme disease	Measles	Meningococcal Meningitis	Mumps	Pertussis	Rocky Mtn Spotted Fever	Salmonellosis	Shigellosis	Yersinia enterocolitica	Totals By County
KNOX																									
LACLEDE		1	2				7			4				2				1							2
LAFAYETTE					2		3		1	15	3	1					1				1	2	2	31	
LAWRENCE	1	1		5	2	1	9			29	3						1				1	3		56	
LEWIS			2	1						1														4	
LINCOLN				7			5			9	1		2									2	2	28	
LINN				2			3													1				6	
LIVINGSTON					1		3			3	1		2											11	
MACON							1						4												6
MADISON					1		2												1						5
MARIES				2						1															3
MARION		2	3				8						3				1								18
MC DONALD	1		2	1						26	1						1	2							35
MERCER		1																							2
MILLER			4				2			11	1	1													28
MISSISSIPPI										1							1	1	1	1					12
MONITEAU	1	1	9				5						1										3	1	21
MONROE							1						2												3
MONTGOMERY							1			1			1												6
MORGAN			4																						4
NEW MADRID		3									3					1	1	1					2	3	13
NEWTON		10	2	2					101	4	1	1	1					2	1	1	9			135	
NODAWAY											2														5
OREGON	1	2		5						6			1										1	6	22
OSAGE							2			1														5	10
OZARK							1			32							2						1	3	37

Selected Diseases By County, Missouri 1996

County	Amebiasis	Animal Rabies (A+)	Aseptic Meningitis	Campylobacteriosis	E. coli O157:H7	Encephalitis Primary	Giardiasis	HIB Meningitis	HIB Other	Hepatitis A	Hepatitis B	Hepatitis non-A, non-B	Influenza	Legionellosis	Listeria monocytogenes	Lyme disease	Measles	Meningococcal Meningitis	Mumps	Pertussis	Rocky Mtn Spotted Fever	Salmonellosis	Shigellosis	Yersinia enterocolitica	Totals By County	
PEMISCOT							2				1														10	
PERRY	2	4	1				1			1	1	1	3				1						1	6	16	
PETTIS	2	4					3			1													4	14	28	
PHELPS	4						1			4	1	1	8										7	1	28	
PIKE	1						10			11			1										2		25	
PLATTE	3	6					1			8	1	1											4	1	24	
POLK	5						3			24	1												6	3	42	
PULASKI	1	2					4																7	1	17	
PUTNAM		1																							2	
RALLS	1																								3	
RANDOLPH		2					1			7	2	1											2		15	
RAY	2	1					2			12														1		18
REYNOLDS		1								1			1												3	
RIPLEY										1	1													1	5	
SALINE	1	2					4		1	13													6	21	48	
SCHUYLER		2																							3	
SCOTLAND			1																						1	
SCOTT		1	7	1			5			4	3							4	1				4	6	36	
SHANNON		1	2				2																		7	
SHELBY		1																							1	
ST. CHARLES	1	1	3	39	6		47			15	1		2					1	1	1	1	24	14	156		
ST. CLAIR										1	1													2		
ST. FRANCOIS		5	3	1			8			4			2										3	2	30	
ST. LOUIS	2	4	14	115	13		113		1	104	32		102	4	1	1		14	1	4		93	50	2	670	
ST. LOUIS CITY	17		6	32	3		98			72	133		38	5	1			8	10			55	20	6	504	
STE. GENEVIEVE			1	2			1						1										3	2	10	

Selected Diseases By County, Missouri 1996

County	Amebiasis	Animal Rabies (A+)	Aseptic Meningitis	Campylobacteriosis	E. coli O157:H7	Encephalitis Primary	Giardiasis	HIB Meningitis	HIB Other	Hepatitis A	Hepatitis B	Hepatitis non-A, non-B	Influenza	Legionellosis	Listeria monocytogenes	Lyme disease	Measles	Meningococcal Meningitis	Mumps	Pertussis	Rocky Mtn Spotted Fever	Salmonellosis	Shigellosis	Yersinia enterocolitica	Totals By County	
STODDRARD			1	3																					14	
STONE				1																					17	
SULLIVAN				2																					7	
TANEY				2																					45	
TEXAS			1	1																					18	
VERNON				5																					35	
WARREN			1	5	1																				22	
WASHINGTON																										15
WAYNE					1																				4	
WEBSTER					3																				33	
WORTH																										1
WRIGHT					1	1																			7	
UNKNOWN																										0
State Total	31	26	120	554	74	3	777	0	8	1414	326	23	283	18	8	52	3	57	10	74	19	565	387	16	4848	

Reportable Diseases of Very Low Incidence, Missouri

Disease	1996	1995	1994
Anthrax	0	0	0
Botulism	1	0	0
Brucellosis	2	0	0
Cholera	0	0	0
Diphtheria	0	0	0
Histoplasmosis	3	4	9
Kawasaki Disease	23	19	12
Leptospirosis	1	2	1
Malaria	11	9	14
Plague	0	0	0
Poliomyelitis	0	0	0
Psittacosis	1	0	4
Reye Syndrome	0	0	0
Rubella	0	0	2
Tetanus	1	3	1
Trichinosis	0	0	1
Tularemia	9	25	24
Typhoid Fever	2	3	1

Other Reportable Diseases, Missouri

Disease	1996	1995	1994
Chickenpox	5830	8840	10,147
Fifth Disease	482	395	2080
Pediculosis	21,308	16,687	9961
Scabies	1423	1785	1707
Scarlet Fever	379	598	755

Source: Data from active and passive surveillance systems.

1996 TUBERCULOSIS CASES

County	Population	Cases	Case Rate	County	Population	Cases	Case Rate
Adair	24,800	0	0.0	Maries	8,300	0	0.0
Andrew	15,200	0	0.0	Marion	27,900	1	3.6
Atchison	7,100	0	0.0	Mercer	4,100	0	0.0
Audrain	23,600	1	4.2	Miller	22,000	0	0.0
Barry	31,400	0	0.0	Mississippi	13,800	0	0.0
Barton	11,700	1	8.5	Moniteau	13,000	0	0.0
Bates	15,400	0	0.0	Monroe	8,800	0	0.0
Benton	15,500	0	0.0	Montgomery	11,600	0	0.0
Bollinger	11,300	0	0.0	Morgan	17,200	0	0.0
Boone	123,700	4	3.2	New Madrid	20,700	2	9.7
Buchanan	82,500	4	4.8	Newton	47,500	1	2.1
Butler	40,300	4	9.9	Nodaway	21,100	0	0.0
Caldwell	8,600	0	0.0	Oregon	10,000	0	0.0
Callaway	34,900	2	5.7	Osage	12,400	0	0.0
Camden	31,600	1	3.2	Ozark	9,500	0	0.0
Cape Girardeau	65,300	0	0.0	Pemiscot	21,700	1	4.6
Carroll	10,400	0	0.0	Perry	17,300	1	5.8
Carter	6,000	0	0.0	Pettis	36,600	1	2.7
Cass (exc. K.C.)	73,454	1	1.4	Phelps	37,500	1	2.7
Cedar	12,900	1	7.8	Pike	16,200	0	0.0
Chariton	8,800	0	0.0	Platte (exc. K.C.)	39,230	1	2.5
Christian	42,700	0	0.0	Polk	24,500	1	4.1
Clark	7,400	0	0.0	Pulaski	38,500	2	5.2
Clay (exc. K.C.)	92,118	1	1.1	Putnam	5,100	0	0.0
Clinton	17,800	0	0.0	Ralls	8,800	0	0.0
Cole	67,600	0	0.0	Randolph	23,900	0	0.0
Cooper	16,000	0	0.0	Ray	22,400	0	0.0
Crawford	21,300	4	18.8	Reynolds	6,700	1	14.9
Dade	8,000	0	0.0	Ripley	13,500	0	0.0
Dallas	14,600	0	0.0	St. Charles	248,300	2	0.8
Daviess	7,900	0	0.0	St. Clair	8,900	0	0.0
DeKalb	10,600	0	0.0	St. Francois	53,300	2	3.8
Dent	14,200	0	0.0	Ste. Genevieve	16,600	1	6.0
Douglas	12,100	0	0.0	Saline	23,000	3	13.0
Dunklin	33,000	3	9.1	Schuylerville	4,300	0	0.0
Franklin	87,800	3	3.4	Scotland	4,800	0	0.0
Gasconade	14,500	0	0.0	Scott	40,300	1	2.5
Gentry	6,800	0	0.0	Shannon	8,100	1	12.3
Grundy	10,400	0	0.0	Shelby	6,900	0	0.0
Harrison	8,300	0	0.0	Stoddard	29,600	1	3.4
Henry	21,000	1	4.8	Stone	25,100	1	4.0
Hickory	8,300	0	0.0	Sullivan	6,600	0	0.0
Holt	5,700	0	0.0	Taney	32,300	0	0.0
Howard	9,700	0	0.0	Texas	22,200	0	0.0
Howell	34,500	5	14.5	Vernon	19,300	0	0.0
Iron	10,900	2	18.3	Warren	22,600	0	0.0
Jackson (exc. KC)	293,120	5	1.7	Washington	21,900	0	0.0
Jasper	96,300	3	3.1	Wayne	12,600	1	7.9
Jefferson	186,400	6	3.2	Webster	26,800	0	0.0
Johnson	46,600	0	0.0	Worth	2,300	0	0.0
Knox	4,300	0	0.0	Wright	18,700	0	0.0
Laclede	29,100	0	0.0				
Lafayette	32,200	0	0.0	Institutionalized	14,000	1	7.1
Lawrence	31,700	2	6.3				
Lewis	10,200	0	0.0	Outstate Missouri	3,250,647	83	2.6
Lincoln	33,000	1	3.0				
Linn	14,000	0	0.0	St. Louis City	358,800	44	12.3
Livingston	14,300	0	0.0	St. Louis County	1,008,100	32	3.2
McDonald	18,600	0	0.0	Kansas City	443,878	48	10.8
Macon	15,200	0	0.0	Springfield/Greene	149,727	17	11.4
Madison	11,200	1	8.9				
				Missouri	5,324,000	224	4.2

MISSOURI MORBIDITY AND MORTALITY REPORTS OF SELECTED COMMUNICABLE DISEASES - 15 YEAR REPORT

	<u>1996</u>	<u>1995</u>	<u>1994</u>	<u>1993</u>	<u>1992</u>	<u>1991</u>	<u>1990</u>	<u>1989</u>	<u>1988</u>	<u>1987</u>	<u>1986</u>	<u>1985</u>	<u>1984</u>	<u>1983</u>	<u>1982</u>
AIDS	845	769	727	1644	657	651	596	478	401	240	91	52	28	6	1
Amebiasis	31	18	38	54	23	25	26	19	30	27	26	28	44	45	11
Brucellosis	2	0	0	0	0	3	1	2	4	14	4	12	7	4	4
Campylobacter	554	601	631	616	614	602	547	473	441	260	281	304	260	166	115
Chickenpox	5830	8840	10147	9609	10009	7678	10591	9086	11350	8595	5093	2474	2565	408	637
Chlamydia	11952	12084	12244	11625	11907	10643	11151	8151	6239	2944	1532	412	9	-	-
Encephalitis, Inf.	5	11	14	26	16	22	12	6	8	11	13	12	11	28	16
Giardiasis	777	761	774	770	739	790	878	859	654	690	516	458	462	216	235
Gonorrhea	8415	11302	12555	13147	14887	17450	20012	21053	17241	16491	19029	20023	20042	20750	21269
Haemophilus influenzae type B															
Meningitis	0	10	7	12	22	42	88	106	138	131	172	108	104	86	66
Other Invasive	8	18	44	123	59	39	57	-	-	-	-	-	-	-	-
Hepatitis A	1414	1338	619	1443	1500	653	619	810	897	560	126	98	138	123	204
Hepatitis B	326	437	538	585	535	549	633	704	639	460	420	359	297	365	297
Non A, Non B	23	23	32	25	27	31	42	53	50	46	39	42	18	33	24
Unspecified	0	1	1	19	9	15	19	13	21	21	15	24	46	87	95
Influenza (confirmed)	283	491	163	272	111	462	220	293	148	69	78	61	39	140	153
Lyme Disease	52	53	102	108	150	207	205	108	-	-	-	-	-	-	-
Malaria	11	9	14	9	12	9	13	13	6	8	12	5	8	4	10
Meningitis, Asep.	120	269	175	275	272	277	246	223	124	163	172	156	95	277	156
Meningitis, Mening.	57	54	43	34	32	37	31	21	33	35	40	46	53	55	40
Mumps	10	25	44	46	39	40	62	87	68	38	23	18	11	21	13
Pertussis	74	63	45	144	120	83	116	141	25	46	32	35	23	24	17
Polio, all forms	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0
Rabies, Animal	26	30	27	35	37	28	30	62	36	59	75	59	70	96	123
RMSF	19	30	22	20	24	25	36	48	54	26	25	10	14	14	10
Rubella	0	0	2	1	1	5	3	4	0	0	1	7	0	0	38
Rubeola	3	2	161	1	0	1	103	671	65	190	32	5	6	1	2
Salmonellosis	565	577	642	529	426	616	723	676	772	660	728	690	617	602	571
Shigellosis	387	1138	654	674	742	259	284	411	607	471	89	143	244	264	67
Syphilis, Total	603	1271	1985	2499	1940	926	598	388	473	328	494	578	712	801	1069
Primary & Second.	221	584	987	1354	1167	572	272	162	154	90	110	133	186	145	296
Tetanus	1	3	1	1	1	1	0	4	1	1	2	3	6	1	1
Tuberculosis	224	244	260	256	245	254	312	278	275	339	338	311	354	399	390
Tularemia	9	25	24	17	34	44	33	39	45	58	32	35	40	51	27
Typhoid Fever	2	3	1	2	3	2	4	2	3	7	6	6	6	10	4
Yersinia enterocolitica	16	21	40	26	37	48	32	36	30	10	6	2	3	1	-